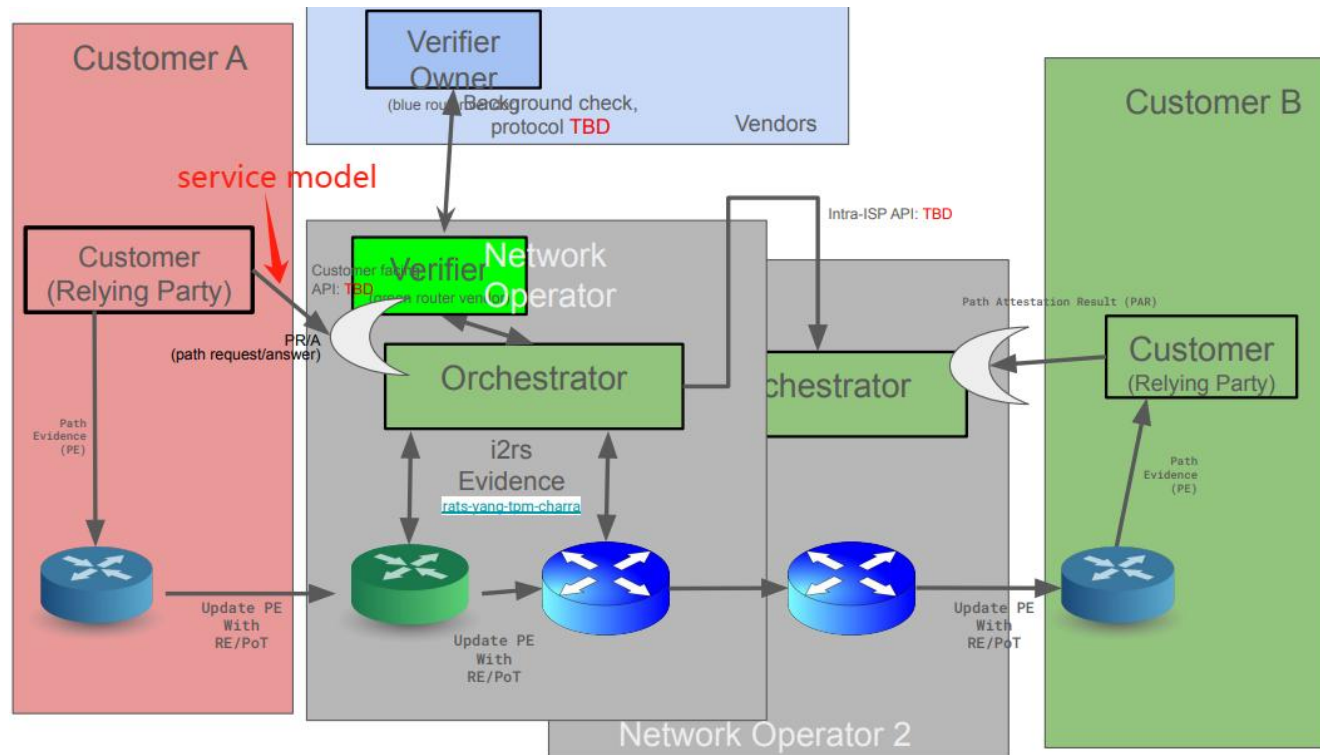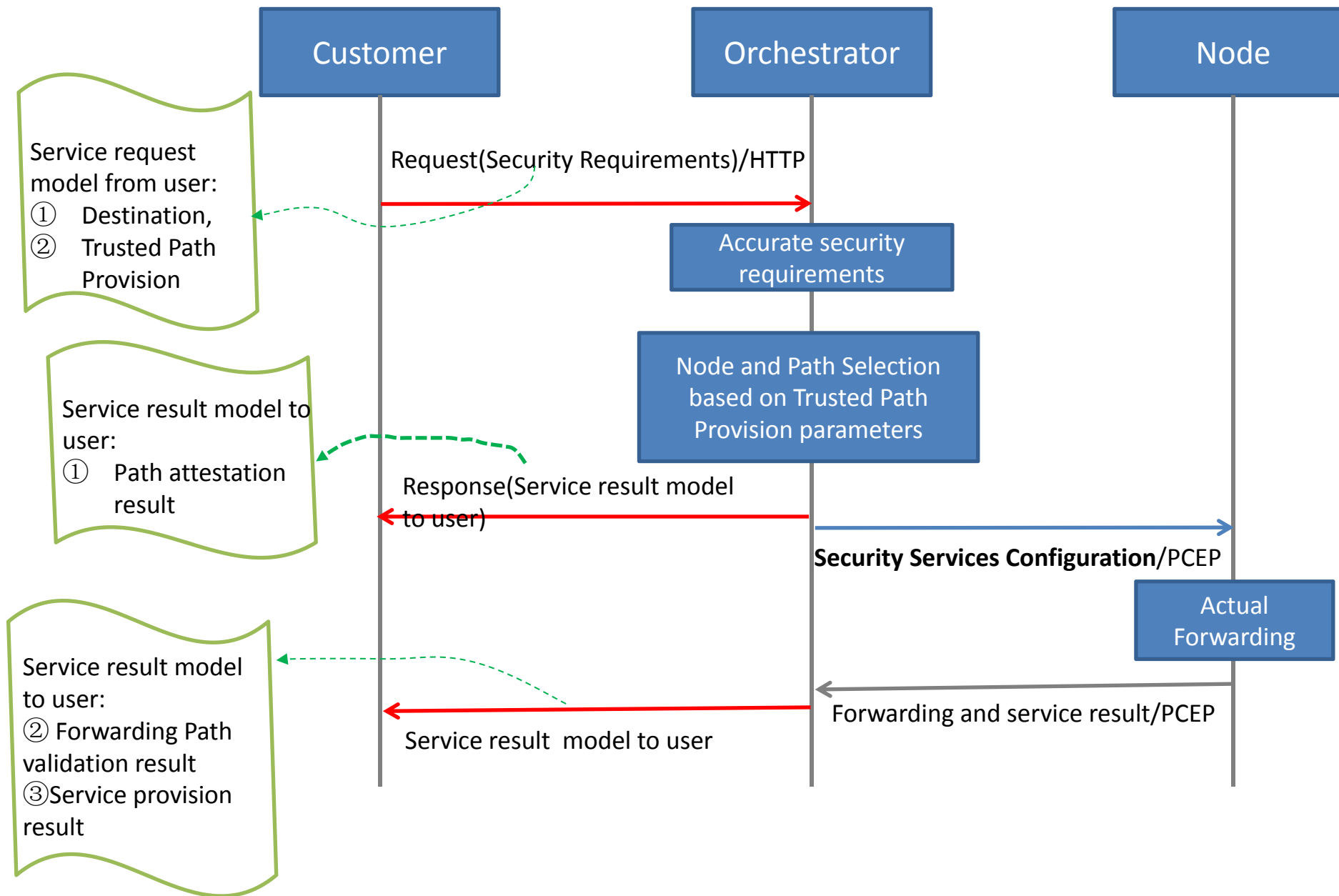# service model for NASR

Operators offer security capabilities that can be added to the connectivity service, and clients make choices.

service model for NASR

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- Service request model from customer:
  - Destination(IP), Path, Sevice type, Geographic restriction;
  - Trusted Path Provision:
    - Node Type: NFV or Hardware;
    - Node Security Configuration: the node's basic security configuration baseline possessed by the router itself, include security hardening, attack perception and so on.
    - L2/L3 Security Feature: used to identify whether to enable authentication and encryption on L2 or L3.(RFC8049)
    - Connection Reliability Feature: Maximal occupancy level, Isolation, Diversity.<RFC 9543>.
    - Security Services Configuration:Security services that can be provided based on traffic, such as firewall,IDS/IPS,attack-mitigation(anti-DDos), access control, Integrity Protection. Each type of security service requires two SLE parameters, processing latency and performance of security capabilities.

service model for NASR

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- Service result model to user:
  - (Initial)Path attestation result: after generating a path that meets the specific forwarding requirements of the user, it is used to record the initial path attestation result as a baseline for future verification, contains at least four fields: Identity, initial attestation result, verification reference and auxillary information.

  - (Actual) Forwarding Path validation result: formed during the actual forwarding process both in-situ and out-of-band modes, it will be verified with path attestation result, contains at least two fields: Identity, Attestation results.

  - Service provision result: as security services can be provided, after the service is provided, need to provide service proof to the user, contains at least two fields: Identity, Service type, Service details.